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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/566,881	02/02/2006	Jill Macdonald Boyce	PU030249	9963
	7590 06/14/201 d, Patent Operations	EXAMINER		
THOMSON Licensing LLC			AHN, SAM K	
P.O. Box 5312 Princeton, NJ 08543-5312			ART UNIT	PAPER NUMBER
			2611	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/566,881	BOYCE ET AL.		
Office Action Summary	Examiner	Art Unit		
	SAM K. AHN	2611		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL'WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on <u>02 Fermions</u> 2a) ☐ This action is FINAL . 2b) ☐ This action for allowed closed in accordance with the practice under Expensive to communication(s) filed on <u>02 Fermions</u> 2b) ☐ This action is in condition for allowed the practice under Expensive to communication(s) filed on <u>02 Fermions</u> 2b) ☐ This action is FINAL.	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ☐ Claim(s) 1-32 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 12-31 is/are allowed. 6) ☐ Claim(s) 1-6,11 and 32 is/are rejected. 7) ☐ Claim(s) 7-10 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 02 February 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11	wn from consideration. or election requirement. er. e: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Seetion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

DETAILED ACTION

Claim Objections

1. Claims 1-11 are objected to because of the following informalities:

In claim 1, the method claim should be amended to include at least one hardware to avoid potential 101 rejection as being directed to non-statutory subject matter, such as including "video decoder", in order to ensure that at least one step is performed by a hardware.

Claim 11 is objected to as applied to claim 1.

Claims 2-10 depend on claim 1. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 32 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In line 8 of the claim, the claim recites "...at least one pixel in the picture...". The claim also recites "decoded pictures", "at least one previously decoded picture", "future pictures", hence it is unclear which it is referring to, thus fails to particularly point out and distinctly claim the subject matter.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in

the United States.

3. Claims 1-4 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by

O'Brien US 2002/0061062 A1.

Regarding claim 1, O'Brien discloses a method for reducing artifacts in a video

stream, comprising the steps of: decoding the video stream (30 in Fig.1); and adding

noise to at least one pixel in a picture in the video stream following decoding in an

amount correlated to additive noise of pixels in at least one prior picture (note

paragraphs 0053, 0054, picture or frame i+1 is applied with added noise of weighted

corrected measures of R G B multiplied by one-third of frame i or prior picture or

frame).

Regarding claim 2, O'Brien further discloses wherein the at least one prior picture

comprises a previously displayed picture (note paragraph 0010).

Regarding claim 3, O'Brien further discloses where the at least one prior picture

comprises a previously decoded picture (picture or frame I, note paragraphs 0053,

0054).

Regarding claim 4, O'Brien further discloses wherein the amount of noise is correlated in accordance with a correlation factor a having a value such that $0 \le a \le 1$ (multiplied by correlation factor of 1/3, note paragraph 54).

Regarding claim 11, the claim is rejected as applied to claim 1 with similar scope. O'Brien further discloses additive noise of at least one other pixel in the picture (pixel_a or pixel_b in Fig.5).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over O'Brien US 2002/0061062 A1 in view of Childers et al. US 5,210,836 (Childers).
 Regarding claim 5, O'Brien teaches all subject matter claimed, as applied to claim 1,

an instantiation of a Finite Impulse Response (FIR) filter. Childers teaches in a

however, does not explicitly teach wherein the amount of noise is correlated using

similar field of endeavor of processing video signals wherein a filter is applied to the

signals using FIR or IIR filters through software programmable device (note c.42, I.1-

5). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to incorporate the teaching of Childers into the filter of O'Brien

wherein the filter is FIR or IIR filters for the purpose of increasing the flexibility of the

system through software programmable device (note c.42, l.1-5).

Regarding claim 6, O'Brien teaches all subject matter claimed, as applied to claim 1,

however, does not explicitly teach wherein the amount of noise is correlated using

an instantiation of a Infinite Impulse Response (IIR) filter. Childers teaches in a

similar field of endeavor of processing video signals wherein a filter is applied to the

signals using FIR or IIR filters through software programmable device (note c.42, I.1-

5). Therefore, it would have been obvious to one skilled in the art at the time the

invention was made to incorporate the teaching of Childers into the filter of O'Brien

wherein the filter is FIR or IIR filters for the purpose of increasing the flexibility of the

system through software programmable device (note c.42, l.1-5).

Allowable Subject Matter

5. Claims 12-31 are allowed.

6. Claims 7-10 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims and overcome the claim objections.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021.

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The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Sam K. Ahn/ Primary Examiner, Art Unit 2611

6/14/2010